#	Protocol or Appendix	Change	Reason
1.	All Protocols: All references to the Intermediate EMT have been removed.	The Intermediate section has been removed.	Intermediate ends 4/1/17 AR 2-205.
2.	Table of Contents.	Title Changes: 1.1 Cardio-Cerebral Resuscitation/High Quality CPR-Adult 2.12 Resuscitation of the Newly Born 3.7 Targeted Temperature Management-Adult 3.8 Post Resuscitative Care (Adult & Pediatric added) 6.1 BLS Albuterol (ILS removed).	To reflect Protocol update.
3.	1.0 Routine Patient Care- Assessment and Treatment Priorities.	Fluid bolus language added to the 6 th bullet. Now reads: Within your scope of practice, obtain peripheral access via intravenous (IV) or intraosseous (IO) Added: "For pediatric patients, a 20mL/kg fluid bolus if applicable". also Removed a repetitive bullet later in this section with the same language.	Standardized the pediatric dose.
4.	1.0 Routine Patient Care- Medication Use and Storage.	9 th bullet- the word withheld was removed The bullet reads: Avoid hyperoxygenation, oxygen administration should be titrated to patient condition, and administered with evidence of hypoxemia, dyspnea, or a SpO ₂ <94%, especially in the presence of a suspected CVA/TIA or ACS.	Formatting.
5.	1.0 Routine Patient Care- Medication Use and Storage.	Date requirement and infusion pump criteria has been removed.	Pump requirement is being reviewed.
6.	1.1 High Quality CPR-Adult. Formerly protocol 6.2.	Protocol moved to the General Patient Care section. Reformatted.	Reminder to perform HQCPR for Cardiac Arrest patients.
7.	2.2A-Allergic Reaction /Anaphylaxis-Adult, 2.2P- Allergic Reaction /Anaphylaxis-Pediatric and 2.6 P Bronchospasm/ Respiratory Distress-Pediatric.	Language change noting Epinephrine administration by auto injector "or IM".	Noting the Medical Director Option Protocol 6.6 Check and Inject Epinephrine by BLS Providers.
8.	2.2P Allergic Reaction/Anaphylaxis-Pediatric and 2.6P Bronchospasm/ Respiratory Distress-Pediatric.	Ratios removed from Epinephrine IM doses.	Technical fix.
9.	2.9, 2.10, 2.14 MCO, 2.15A, 2.15P, 3.7, 7.6 IFT D3-CVA and D5- Pregnancy.	Diazepam removed Except the 10mg IM by auto-injector in the Paramedic Standing Order section of Protocol 2.9.	Midazolam is a more effective benzodiazepine.
10.	Adult Med reference Pediatric Med reference.	Diazepam not removed.	Kept in the med reference in the event of a medication shortage.
11.	2.4, 2.9, 2.10, 2.14 MCO, 2.15A, 2.15P, 3.7, 7.6 IFT D3-CVA and D5-Pregnancy.	Lorazepam removed.	Midazolam is a more effective benzodiazepine.
12.	Adult Med reference Pediatric Med reference.	Lorazepam not removed.	Kept in the med reference in the event of a medication shortage.
13.	2.11 Newly Born Care.	Wording change from newborn and infant to newly born.	Formatting.

#	Protocol or Appendix	Change	Reason
14.	2.13 Pain & Nausea	Added to the AEMT level:	AEMTs can administer
	Management	Adult: Ondansetron 4 mg PO (Oral Disintegrated Tablet	ondansetron.
	Adult & Pediatric.	(ODT) is the preferred route/IV/IO/IM.	
		Pediatric: Ondansetron for child under or up to 25 kg,	
		2mg po by Oral Disintegrating Tablet (ODT). ODT is	
		the preferred route/IV/IM:	
		For a child over 25 kg, 4 mg PO by ODT (the preferred	
		route)/IV/IM.	
15.	2.13 Pain & Nausea	Medications added to the Paramedic section:	Non opioid medications added.
	Management	Adult:	
	Adult & Pediatric. Released as	• Acetaminophen 650-1000 mg IV or PO	
	an emergency change on	• Ibuprofen 600 mg PO	
	9/26/17.	• Ketorolac 15 mg IV or 30 mg IM	
		Pediatric:	
		• Acetaminophen 15 mg/kg IV or PO to max 1000 mg.	
		• Ibuprofen 10 mg/kg PO to max 600 mg.	
		• Ketorolac 0.5 mg/kg IV or IM to max 15 mg.	
16.	2.13 Pain & Nausea	NOTE: All pain medications have contraindications-do	Contraindication summary for
	Management	not administer medications in such circumstances.	non opioid medications.
	Adult & Pediatric.	These contraindications include but are not limited to:	_
		Ketorolac and ibuprofen are contraindicated in head	
		injury, chest pain, abdominal pain, or in any patient with	
		potential for bleeding, ulcer, or renal injury; likely to	
		need surgery Acetaminophen is contraindicated in	
		patients with liver failure. Ketorolac and ibuprofen are	
		contraindicated in pregnancy.	
17.	2.14 Poisoning/Substance	Added NOTE: Naloxone should only be administered in	Reminder to ensure adequate
	Abuse/Overdose/Toxicology-	suspected overdose patients with inadequate respirations	respirations.
	Adult & Pediatric.	and respiratory rate. Treatment should progress toward	
		the restoration of adequate respirations. Patients with	
		inadequate respiratory rates may need to be ventilated until their respiratory rate increases.	
18.	2.16A Shock-Adult.	Added this language to the Advanced box of the adult	Technical fix.
		shock protocol in distributive, hypovolemic and	
		obstructive shock: Consider Normal Saline fluid bolus.	
19.	2.16P Shock-Pediatric.	Added this language to the Advanced box of the pedi	Technical fix.
		shock protocol in distributive, hypovolemic, obstructive	
		shock: Consider 20 ml/kg Normal Saline fluid bolus.	
20	2.10 Studies	EAST ED Studio and added in the state of the	Immuovo mushoonital
20.	2.18 Stroke.	FAST-ED Stroke scale added in place of the	Improve prehospital assessment
		Massachusetts Stroke Scale. Two additional screening	of the stroke patient.
		items-eye deviation and denial/neglect. Protocol and checklist formatted.	Tachnical Change
		CHECKIST IOIIIIAUCU.	Technical Change.
21.	3.1 Acute Coronary Syndrome-	Page 2 Red Flag box language changed to read the same	Technical fix.
	Adult.	as routine cares, the word withheld has been removed.	
		Now reads: Avoid hyperoxygenation, oxygen	
		administration should be titrated to patient condition,	
		and administered with evidence of hypoxemia, dyspnea,	
		or a SpO2 <94%, especially in the presence of a	
		suspected CVA/TIA or ACS.	

#	Protocol or Appendix	Change	Reason
22.	3.4A-Cardiac Arrest	Added to the Paramedic Standing orders-	Begin hyperkalemia treatment
	(Adult):Asystole	For suspected hyperkalemia administer calcium chloride	in the field, Dialysis patients are
	/Pulseless Electrical Activity.	2-4mg/kg slow IV over 5 minutes to maximum 1g.	at particular risk. Added
		also	indication.
		-Reformatted language to reflect 1.1 the CCR protocol.	Technical fix.
		also	T 1 1 C
		-wording changed EARLY DEFIBRILLATION was removed. Now reads: "Early AED Use."	Technical fix.
		3 rd bullet reads: If No Shock Advised, Resume	
		HQCPR when appropriate.	
23.	3.4P-Cardiac Arrest (Pediatric)	Added this language to the Advanced section: Consider	Technical fix.
	Asystole/Pulseless Electrical	20 ml/kg Normal Saline bolus.	
	Activity.	also	
		-wording changed EARLY DEFIBRILLATION was	Technical fix.
		removed. 2 nd bullet reads: If No Shock Advised resume	
		CPR if appropriate.	
24.	3.7 Targeted Temperature	Formerly named Induced Therapeutic HypothermiaIn	Reflecting the 2015 AHA
	Management-Adult. (New	the Contraindications box the temperature was changed	Guidelines.
	Name).	to be <32 degrees. 2 nd bullet reads: Hypothermia exists	
		(< 32° C) by core temperature.	
		-1 CAUTION box added that reads:	
		CAUTION: Routine prehospital cooling of patients	
		with ROSC with intravenous (IV) rapid infusion is not	
		advised (class III: no benefit; level of evidence A) 1	
		NOTE box added that reads: NOTE: The end	
		temperature goal is 32-36 degrees C (89.6-96.8 F).	
25.	3.8 Post Resuscitative	Pediatric added to the Protocol title.	Managing Post Resuscitative
	Care/ROSC-Adult & Pediatric.		Care in a Pediatric Patient.
		Added a line under the Paramedic Standing Orders 2 nd bullet: Consider treatable causes such as respiratory	
		arrest.	
		Added a line under the Paramedic Standing Orders as a 3 rd bullet to bolus IV fluid at a rate of 20 ml/kg.	
		Added a line under the Paramedic Standing Orders	
		Added under the Paramedic Standing Orders	
		Norepinephrine infusion 0.1mcg/kg/min IV/IO via	
		pump. Titrate to goal Systolic Blood Pressure of 90 mm	
		Hg.	
		Added to the Medical Control section:	
		Epinephrine Infusion - Administer 0.1-1mcg/kg/min per	
		minute IV or IO, by pump, with titration to goal SBP of	
		90 mmHg.	
		• For example, mix 1 mg of 1:1000 Epinephrine in 250	
		ml Normal Saline, then 15 micro drops/minute = 1	
		mcg / min.	
		Please note: No Amiodarone or Lidocaine for Pediatric	
		Patients.	
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#	Protocol or Appendix	Change	Reason
26.	4.5 Multisystem Trauma-Adult & Pediatric.	Added this language to the Paramedic –Standing Orders:	Prevent blood loss in trauma patients.
		For a patient ≥ 16 years of age, who has SBP< 90 or	
		P>110 or if the provider determines the patient to be at	
		high risk for significant hemorrhage:	
		Tranexamic Acid, 1 gram IV over 10 minutes. (mix 1	
		gram of TXA in 100ml of Normal Saline).	
		-Note was added that reads: **Note: Service Medical Director Option for use of TXA only if trained and	
		authorized, see <u>6.5 Tranexamic Acid</u> .	
27.	5.1A Upper Airway Obstruction-	In the AEMT section the word "advanced" has been	Technical fix.
27.	Adult.	removed.	Toolinear IIX.
		The AEMT order reads:	
		"Provide airway management if indicated for	
		mechanical obstruction: If unable to remove	
		obstructing foreign body, continue BLS airway	
		management by providing positive pressure	
		ventilations if needed".	
28.	5.1A Upper Airway Obstruction-	The Intermediate section has been removed. This	Technical fix.
	Adult.	language has been moved to the Paramedic section-	
		"Perform direct laryngoscopy if foreign body "Perform direct laryngoscopy if foreign body "Perform direct laryngoscopy if foreign body	
		suspected. If foreign body is visible and easily accessible, attempt removal with Magill Forceps".	
29.	5.1P Upper Airway Obstruction-	The Intermediate section has been removed. This	Technical fix.
	Pediatric.	language has been moved to the Paramedic section-	100,,,,,,,
		"Provide advanced airway management if indicated	
		for mechanical obstruction: perform direct	
		laryngoscopy if foreign body is suspected. If foreign	
		body is visible and readily accessible, attempt	
		removal with Magill forceps. If unable to remove	
		obstructing foreign body, continue BLS airway	
		management by providing positive pressure	
		ventilations".	
		"If foreign body is removed, proceed with	
		endotracheal intubation if necessary and perform	
		capnography".	
30.	5.2 Difficult Airway-Adult.	The Intermediate level was changed to the AEMT level.	Technical fix.
		One line was removed (Provide Rescue Airway	
		Management). The AEMT section reads:	
		After completing your assessment as listed above:	
		-If BVM failure is the result of a manageable cause.	
		-Apply countermeasures if applicable.	
		-If the patient can be ventilated, but the airway is unstable <u>insert the supraglottic device.</u>	
31.	5.3 Tracheostomy Tube	Formatted only-removed repeated language.	Technical fix.
J1.	Obstruction Management Adult	Tomated only romoted repeated language.	Tommout HA
22	& Pediatric.	Desta cal manhan share at	To also in al. C
32.	6.2 Needle Cricothyrotomy Formerly 6.3.	Protocol number changed.	Technical fix.
33.	6.3 Selective Spinal Assessment Formerly 6.4.	Protocol number changed.	Technical fix.
34.	6.4 Urban Search and Rescue (USAR) Formerly 6.5.	Protocol number changed.	Technical fix.

#	Protocol or Appendix	Change	Reason
35.	6.5 Tranexamic Acid Protocol. Released as an emergency change 10/26/17.	New Protocol-As a Medical Director Option: For a patient over ≥ 16 years of age, who has SBP< 90 or HR >110 BPM, or if the provider determines the patient to be at high risk for significant hemorrhage: Tranexamic Acid (TXA) 1 gram IV over 10 minutes. (mix 1 gram of TXA in 100ml of Normal Saline).	Prevent blood loss in trauma patients.
36.	6.6 New Protocol-Check and Inject Epinephrine by BLS Providers.	New Protocol-Participants must meet the following criteria to participate: 1. Affiliate Hospital Medical Director (AHMD) approval to participate. 2. Check and Inject kits (described above) are available. 3. Initial training and AHMD oversight. 4. EMT participants complete and pass a competency exam. 5. 100% standard tracking of cases with 100% CQI. 6. Quarterly retraining of all EMTs.	Medical Director option for services to administer epinephrine IM by injection. Auto-injector not required. For use in protocols: 2.2A-Allergic Reaction /Anaphylaxis-Adult, 2.2P- Allergic Reaction /Anaphylaxis-Pediatric and 2.6 P Bronchospasm/ Respiratory Distress-Pediatric.
37.	6.7 Acetaminophen IV.	New Protocol- With Affiliate Hospital Medical Director (AHMD) approval, an ambulance service may choose to stock the ALS ambulance(s) with IV acetaminophen, for administration by trained Paramedics as a pain medication option. Adult-Acetaminophen 650-1000 mg IV. Pediatric-Acetaminophen 15 mg/kg IV or PO to max 1000 mg.	A pain medication option by Paramedics with Medical Director approval.
38.	Appendices AI-Adult Med Reference additions: acetaminophen, ibuprofen and ketorolac.	Added to reflect updates to Protocol 2.13 Pain and Nausea Management.	Reference consistent with the Protocol.
39.	Appendices AI-Adult Med Reference addition: Tranexamic Acid (TXA).	Added to reflect updates to Protocol 4.5 Multisystem Trauma.	Reference consistent with the Protocol.
40.	Appendices A2-Pediatric Med Reference.	This language was added-NOTE: if you are using an appropriate weight or size based dosing system for an approved medication, use the dose specified in that system. If not, use the dose given in the applicable protocol.	Clarifying Language: The reference is a guide-reminding providers to use doses specified in the protocols.
41.	Appendix A2-Pediatric Med Reference additions: acetaminophen, ibuprofen and ketorolac.	Added to reflect updates to Protocol 2.13 Pain and Nausea Management.	Updated the Appendix to reflect the Protocol.

#	Protocol or Appendix	Change	Reason
42.	IFT-page 7 B1-Pediatric	Language amended now reads:	This change is a technical
	Patients.	Neonate/Pediatric Critical Care	correction. The current
	Released as an emergency	B1 – PEDIATRIC PATIENTS (8 years of age or	protocol requires Critical Care
	change 10/26/17.	younger)	Transport for all intubated
	5	☐ Any neonate (30 days or younger) requiring	children. Many chronically-
		transfer for evaluation and/or treatment of an	ventilator-dependent children
		UNSTABILIZED acute condition.	do NOT actually require critical
			care transport, so the text of the
		☐ Any pediatric patient with critical illness or injury. NOTE: On-line MEDICAL CONTROL should be	requirement has been rewritten
		involved in determining whether	to require CCT only for
		pediatric patients require critical care.	acutely-intubated patients.
		☐ Any pathology associated with the potential for	Since critical care teams are a
		imminent upper airway collapse and / or	very scarce resource, this
		obstruction (including but not limited to airway burns,	change allows pediatric patients
		toxic inhalation, epiglottitis, retropharyngeal abscess,	to be safely and much more
		etc.). If any concerns whether patient falls into this	rapidly brought to the hospitals
		category, contact MEDICAL CONTROL.	they require.
		☐ Any pediatric patient requiring <u>acute</u> ventilatory	
		support (NIV, high flow NC, ventilator, etc.) who	
		requires an interfacility transfer.	
		☐ All conditions that apply to adult medical patients	
		also require CCT for the pediatric patient. NOTE: On-	
		line MEDICAL CONTROL should be involved in	
		determining whether pediatric patients require critical	
		care.	
43.	A4 SOP Airway/Respiratory	Orogastric tube added to the Paramedic SOP.	Paramedic skill.
13.	Management.	Now reads nasogastric/orogastric tube.	Turamedie skiii.
	Withing ement.	and	
		Ventilator added an * to ventilator operation.	Allowed under CCR protocol
		The line "adult only" was removed noting the change in	Paramedic skill.
		the IFT–Pediatric protocol.	Taramedie skin.
44.	A4 SOP Routes of	Added IM to the Basic level.	Basic skill with AHMD
44.	Access/Medication	Added IN to the Dasic level.	
	Access/Medication Administration.		approval for IM Epinephrine.
45.	A4 SOP Advanced EMT med	Ondansetron added to AEMT med list.	Reflects Protocol 2.13 Pain &
43.		Olidansetron added to AEMT med list.	
	list under Cardiac Management		Nausea protocol.
46.	section. A4 SOP other skills.	Added blood lactate analysis.	Paramedic skill.
47.	A5 Department Approved Point	Department Approved POE's-the title was replaced with	Technical fix.
Τ/.	of Entry Plans.	Department Approved Point of Entry Plans.	recinical fix.
	or zami ji imio.	2 open ment repproved rount of Entry riums.	
48.	A5 STEMI POE.	Intermediate removed in #1. Sentence reads BLS or	Technical fix.
		Advanced EMT level will go to the closest appropriate	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		health care facility.	
40	A5 Stroke DOE	-	Tachnical Fix reflecting
49.	A5 Stroke POE.	under "Determining most appropriate transport"	Technical Fix reflecting
		-#1. 2 hours changed to 5.	protocol.
		-#4 removed-referenced patient arriving 2 hours after	
		symptom onset	